ATK

Z87PRO 使用指南 >>

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User Manual

Q WHY IS MY WIN KEY NOT WORKING ?

A When the WIN key is locked by pressing FN+WIN, it cannot be triggered for use, and the WIN indicator light on the keyboard will be illuminated. To unlock it, press FN+WIN again.

Q WHY HAVE MY WIN AND ALT KEYS BEEN SWAPPED, AND F1-F12 ARE NOT FUNCTIONING OR HAVE CHANGED TO MULTIMEDIA KEYS ?

A After pressing FN+S, the keyboard will switch to MAC mode. In this mode, on a Windows system, the WIN and ALT keys are swapped, and F1-F12 become function keys. To switch back to Windows mode, press FN+A.

Q HOW CAN I CUSTOMIZE KEYS, USE KEYBOARD MACROS, AND MODIFY MORE RGB LIGHTING EFFECTS?

A You can download the latest driver for V HUB from the official website at www.vgnlab.com/pages/vgn-hub. This driver allows you to customize keys, edit macros, and modify RGB lighting effects within V HUB, providing you with the full keyboard functionality experience.

⬆ DRIVER DOWNLOAD AND FIRMWARE UPGRADE

VISIT THE VGN OFFICIAL WEBSITE: WWW.VGNLAB.COM/PAGES/VGN-HUB

TO DOWNLOAD THE LATEST DRIVER AND PERFORM FIRMWARE UPGRADES, EXPERIENCING THE FULL KEYBOARD FUNCTIONALITY.
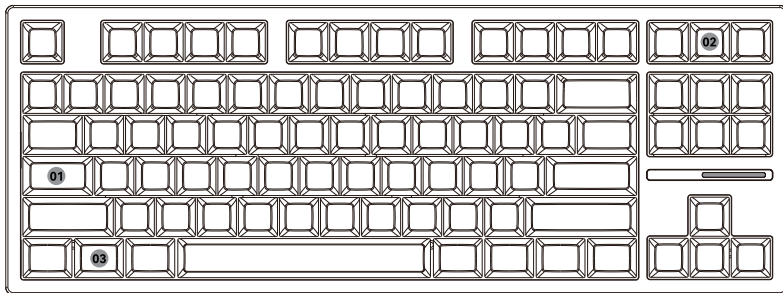
长条指示灯： 可切换显示灯效和电量；低电量和连接状态提示

[01] CAPS指示灯： CAPS键位灯区分大小写状态，大写状态时常亮

[02] Scroll指示灯： Scroll键位灯区分滚动锁定状态，开启状态时常亮

[03] WIN指示灯： WIN键位灯区分WIN键锁定状态，WIN键锁定时常亮，此时WIN键无法使用

WIN键： 锁定WIN键时无法使用，MAC模式下为option键

ALT键： MAC模式下为Command键

Windows / MAC模式
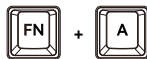
FN + A　切换为Windows模式

FN + S　切换为MAC模式

在接入Windows系统时 如果切换为MAC模式

WIN ⇌ ALT　对调WIN和ALT键

2.4G无线连接（仅限三模版本）

①从右侧收纳槽中取出接收器　②将接收器插入电脑的 USB 端口　③将左侧的模式切换开关拨至2.4G模式

蓝牙连接（仅限三模版本）

①将左侧的模式切换开关拨至蓝牙模式　②长按 FN + 数字键 1、2 或者 3 开始配对，配对时长条指示灯快闪　③最多支持配对 3 台设备。按 FN + 数字键 1、2 或者 3 可以切换设备

有线连接

①将 USB-C 连接线插入键盘的端口　②将线缆连接至电脑　③将左侧的模式切换开关拨至中间

电量查看

可通过FN+右CTRL查看电量。可在长条指示灯上查看电源百分比。

- 电量≥90%：从左至右8个灯珠亮绿色。 电量<90% ≥80%：从左至右7个灯珠亮绿色，剩下熄灯。
- 电量≥70% <80%：从左至右6个灯珠亮青色，剩下熄灯。电量≥60% <70%：从左至右5个灯珠亮青色，剩下熄灯。
- 电量≥50% <60%：从左至右4个灯珠亮橙色，剩下熄灯。 电量≥40% <50%：从左至右3个灯珠亮橙色，剩下熄灯。
- 电量≥30% <40%：从左至右2个灯珠亮红色，剩下熄灯。 电量<30%：整个灯条红色闪烁，表示低电。

低电量提示

- 在低电量时数字键全红色闪烁。

充电方式

在任何模式下，通过配备的数据线将键盘与电脑相连接都将为键盘充电。
在数据线连接状态下，按FN+右CTRL可在长条指示灯上查看充电状态，按住时，

　　　　灯条绿色跑马表示正在充电　　　　　灯条绿色常亮表示已经充满

休眠功能

在蓝牙和2.4G模式时，键盘静止3分钟后进入一级休眠，背光关闭；
静止10分钟后进入二级休眠，蓝牙/2.4G断开，按任意键可立即回连。

## Light effect switching

| FN | + | INS |

Press FN+INS to activate custom backlighting, supporting only one set of custom memory lighting.

Custom Lighting Editing

After pressing FN+~ to activate custom backlighting, press FN+~ again to start editing the lighting. At this point, the next key to be defined changes the light color with each press of the keyboard. After editing, press FN+~ again to save the edited lighting.

Strip Indicator Lighting Effects
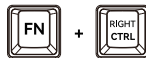
| FN | + | RIGHT CTRL |

Wired mode
Press FN+right CTRL to display the charging light effect
Green light flowing — It's charging   Lighting green steady — It's fully charged.

Wireless mode
When the device is not connected, the strip indicator preferentially indicates the wireless channel
After device connection,press FN+right CTRL to display the charging light effect
Green light flowing — It's charging   Lighting green steady — It's fully charged.

When the device is pairing, the strip indicator flashes quickly. During reconnection, the long strip indicator flashes slowly (2.4GHz in green — BT1 in blue — BT2 in purple — BT3 in cyan —).

After a successful pairing, the normal lighting effects will be restored.

Lighting Effect Settings

FN +

DEL	Turn on/off keyboard backlight
INS	Switch backlighting effects
←	Change backlight lighting direction
→	Adjust seven-color backlight
↑	Increase backlight brightness
↓	Decrease backlight brightness
=+	Increase backlight speed
-_	Decrease backlight speed
HOME	Switch strip indicator lighting effects
END	Switch strip indicator light color
PGUP	Increase strip indicator light brightness
PGDN	Decrease strip indicator light brightness
[{	Decrease strip indicator light speed
]}	Increase strip indicator light speed

FN +

多媒体快捷组合键			
按键	Windows系统	MAC系统	备注
F1	我的电脑	屏幕亮度减小	
F2	主页	屏幕亮度增加	
F3	计算器	控制台(CTRL+方向键上)	
F4	播放器	搜索(WIN+F)	
F5	上一曲	呼出SIRI	
F6	下一曲	截图(win+shift+4)	
F7	暂停 / 播放	上一曲	
F8	停止	播放/暂停	
F9	静音	下一曲	
F10	音量降低	静音	
F11	音量提高	音量减小	
F12	邮箱	音量增加	
ESC	长按3秒，恢复出厂设置		
A	切换至Windows模式		
S	切换至MAC模式，功能见按键说明		WIN键与ALT键对调
左 WIN	锁定WIN键，锁定时WIN键无法使用		WIN键白灯指示
右 CTRL	显示充电灯效		灯条绿色跑马->充电 灯条绿色常亮->充满
1	切换至蓝牙设备1，长按配对		长条指示灯蓝色闪烁
2	切换至蓝牙设备2，长按配对		长条指示灯紫色闪烁
3	切换至蓝牙设备3，长按配对		长条指示灯青色闪烁
4	长按配对2.4G接收器		长条指示灯绿色闪烁

FN +

灯效控制	
DEL	关闭 / 打开背光（带记忆）
INS	切换背光模式
←	背光灯光方向切换
→	快速调节七色背光
↑	背光亮度提高
↓	背光亮度降低
=+	背光速度增加
-_	背光速度减小
HOME	切换长条指示灯灯效
END	长条指示灯颜色切换
PGUP	长条指示灯速度增加
PGDN	长条指示灯速度减小
[{	长条指示灯亮度降低
]}	长条指示灯亮度提高

FN +

Multimedia Shortcut Combination Keys			
Key	Windows System	MAC System	Comment
F1	My Computer	Screen Brightness Decrease	
F2	Homepage Screen	Brightness Increase	
F3	Calculator	Console (CTRL+ Arrow key up)	
F4	Open the media player	Search (WIN+F)	
F5	Previous Track	Call out SIRI	
F6	Next Track	Screenshot (win+ shift+4)	
F7	Pause/Play	Previous Track	
F8	Stop	Pause/Play	
F9	Mute	Next Track	
F10	Volume Decrease	Mute	
F11	Volume Increase	Volume Decrease	
F12	Email	Volume Increase	
ESC	Long press for 3 seconds to restore factory settings		
A	Switch to Windows mode		
S	Switch to MAC mode		Switch between WIN and ALT
Left WIN	Lock the WIN key		WIN key lights up in white.
Right CTRL	Display charging light effect		▬▬ It's charging ▬▬ It's fully charged.
1	Switch to Bluetooth Device 1(long-press to pair)		strip indicator light flashing in blue
2	Switch to Bluetooth Device 2(long-press to pair)		strip indicator light flashing in purple
3	Switch to Bluetooth Device 3(long-press to pair)		strip indicator light flashing in cyan
4	Long-press to pair with the 2.4GHz receiver		strip indicator light flashing in green

2.4GHz Wireless Connection(Tri-mode version)

① Remove the receiver from the right storage slot ② Insert the 2.4GHz receiver into a USB port on your computer ③ Set the left mode switch to 2.4G mode

Bluetooth connection (Tri-mode version)

① Turn the mode switch on the left side to Bluetooth mode ② Long-press FN + number key 1, 2, or 3 to start pairing. During pairing, the strip indicator light will flash quickly. ③ You can pair up to 3 devices. Press FN + number key 1, 2, or 3 to switch between devices.

Wired Connection

① Insert the USB-C connection cable into the keyboard's port. ② Connect the cable to your computer. ③ Flip the mode switch on the left side to the center

Battery Status Check

To check the battery level, press FN+right CTRL. The battery percentage will be displayed on the strip indicator .

- Battery level ≥ 90%: 8 light beads light green from left to right.
  Battery level<90% ≥ 80%: 7 light beads turn green from left to right, and the remaining lights turn off.
- Battery level ≥ 70%<80%: From left to right, 6 light beads light up in cyan, and the remaining lights turn off.
  Battery level ≥ 60%<70%: 5 light beads turn cyan from left to right, and the remaining lights turn off.
- Battery level ≥ 50%<60%: Four light beads from left to right light up orange, and the remaining lights turn off.
  Battery level ≥ 40%<50%: Three light beads from left to right light up orange, and the remaining lights turn off.
- Battery level ≥ 30%<40%: Two light beads from left to right turn red, and the remaining lights turn off.
  Battery level<30%: The entire light bar flashes red, indicating low battery.

Low Battery Warning

- The Number keys will be flashing red When the battery is low.

Charging Method

In any mode, connecting the keyboard to a computer using the provided data cable will charge the keyboard. When connected via the data cable, you can check the charging status by pressing FN+Right CTRL.

The green flowing light indicates it's charging   The green light means it's fully charged.

Sleep Mode

In Bluetooth and 2.4GHz modes, the keyboard enters the first level sleep mode after 3 minutes of inactivity, and the backlight turns off.
After 10 minutes of inactivity, it enters the second level sleep mode, and Bluetooth/2.4GHz disconnects. It can immediately reconnect by pressing any key.

灯效切换

FN + ~
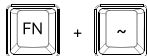
按下 FN+ ~ 调用自定义背光，仅支持一组自定义记忆灯光。

自定义灯光编辑：

按 FN+ ~ 切换至自定义灯光模式，再按下FN+~开始编辑灯光，此时按下需定义的按键，

每按一下键盘灯光颜色变换,编辑完成后再次按下FN+~保存已经编辑的灯光。

长条指示灯灯效

FN + 右CTRL

有线模式：按下FN+右CTRL，显示充电灯效：灯条绿色跑马━━充电，灯条绿色常亮━━充满。

无线模式：设备未连接时，灯条优先指示无线通道。
设备连接后，按下 FN+右CTRL，显示充电灯效：灯条绿色跑马━━充电，灯条绿色常亮━━充满。

设备配对时，长条指示灯快闪，回连时，长条指示灯慢闪（2 .4G绿色━ BT1蓝色━ BT2紫色━ BT3青色━ ）
配对成功后，恢复正常灯效。

Q 为什么我的WIN键无法使用？

A 在按下FN+WIN键后锁定WIN键的情况下，WIN键是无法触发使用的，此时键盘上的WIN指示灯呈亮起状态，再次按下FN+WIN后即可解锁。

Q 为什么我的WIN键和ALT键对调了，
F1-F12没有反应或变成功能键？

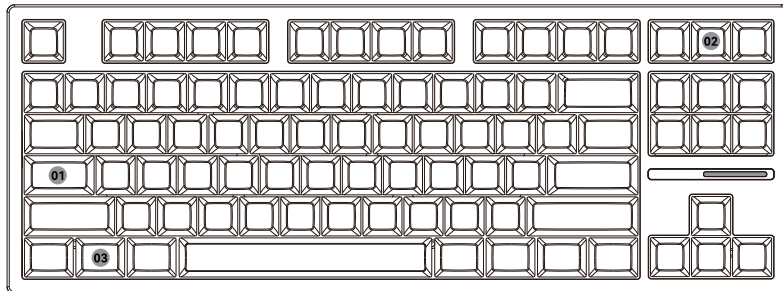**A** 在按下FN+S后，键盘会切换成MAC模式，此时在Windows系统下，会表现为WIN键和ALT键对调，F1-F12变为功能键；按下FN+A即可切回Windows模式。

Q 我想要自定义按键、使用宏功能、修改
更多RGB灯光效果，应该怎么办？

A 通过 ATK.PRO 官网下载最新驱动程序，可通过驱动软件来自定义按键、编辑宏和修改RGB灯光效果，体验完整键盘功能

⬆ 驱动下载和固件升级

前往ATK官网：**ΛTK.PRO**

可下载最新驱动程序和进行固件升级
体验键盘完整功能

Strip Indicator : Displays multiple lighting effects and can be used to check the battery status.

01 CAPS Lock Indicator : On for uppercase, Off for lowercase.

02 ScrollLock Indicator: On for disabled Scroll function, Off for enabled Scroll function.

03 Windows Lock Indicator : On for Windows key locked, Off for normal use.

WIN **WIN Key**
Functions as the Option key in MAC mode.

ALT **ALT Key**
Functions as the Command key in MAC mode.

Windows / MAC Mode

FN + **A**
Switch to Windows Mode

FN + **S**
Switch to MAC Mode

Switching to Mac mode while connected to a Windows system.

WIN ⇌ **ALT**
Swaps the WIN and ALT keys.

FCC Warning

15.19 Labeling requirements.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

15.21 Information to user.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.105 Information to the user.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

FCC RF Radiation Exposure Statement:

1.This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

2.This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance **5mm** between the radiator and your body.

技术要求：
1.材质：157G双铜纸
2.印刷颜色：四色双面印刷
3.表面处理：过哑膜
骑马钉
折叠尺寸：114*140mm 展开尺寸：228*140mm